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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,055	04/02/2004	Yves R. Hoarau	HOARAU-01	2228
7590 John M. Macaulay 2324 Temple Drive Davis, CA 95616	05/18/2007		EXAMINER STOKES, CANDICE CAPRI	
			ART UNIT 3732	PAPER NUMBER
			MAIL DATE 05/18/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/817,055	HOARAU ET AL.	
	Examiner	Art Unit	
	Candice C. Stokes	3732	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 April 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,3-25,42-44 and 46-56 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 53-56 is/are allowed.
- 6) Claim(s) 1,3-25,44 and 48 is/are rejected.
- 7) Claim(s) 42,43,46,47 and 49-52 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date: _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/30/07 has been entered.

Claim Rejections - 35 USC § 103

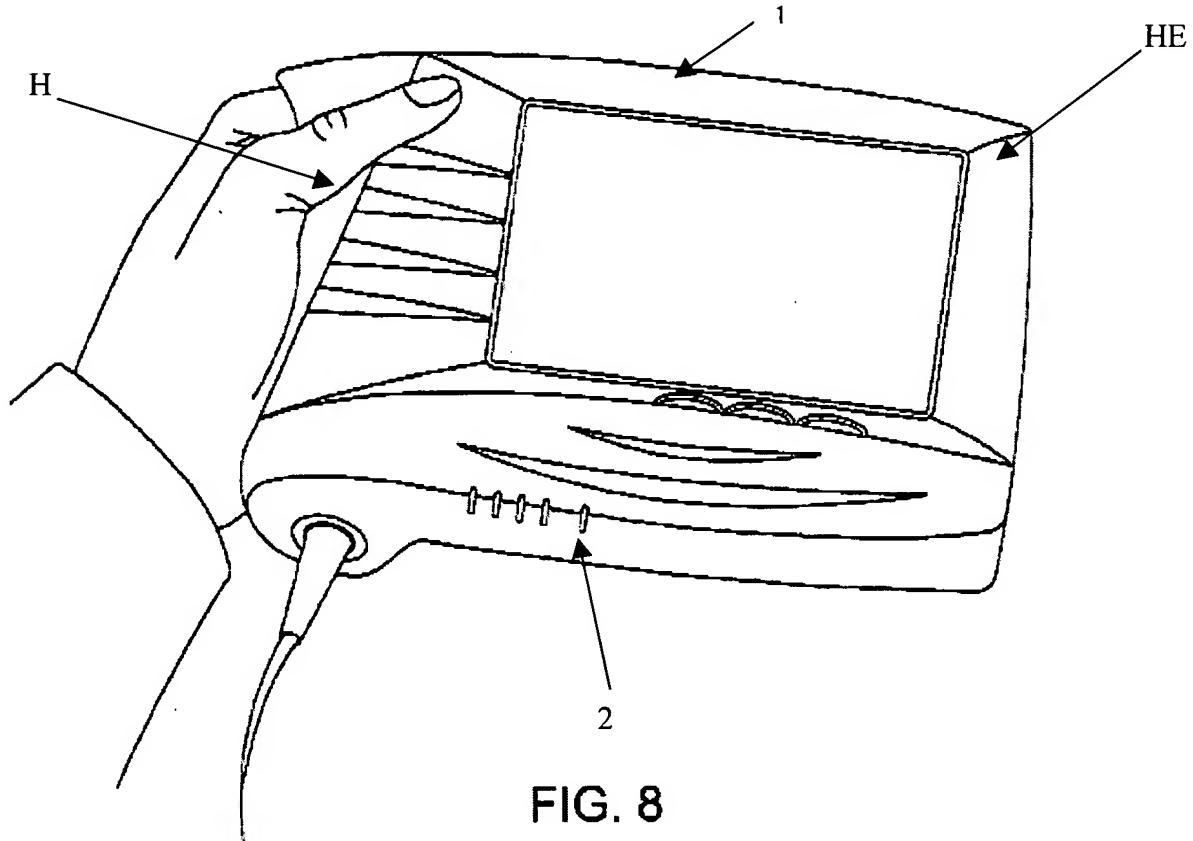
The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1) Claims 1,3-10,13-20,23,25,44 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barnes et al. Barnes et al disclose an intraoral data input tool 100, said tool comprising: a handle 114, and a head 118 attached to a first end of said handle 114, said head 118 including a data input device 100, said data input device 100 being responsive to force applied by a stylus 122, said head 118 being configured to allow a dental examiner to input data using said stylus on said input device when said head is positioned at least partially within said patient's mouth. In an alternate embodiment, Barnes et al shows handle (H), as shown in Figure 8 (copied below for clarification), being generally cylindrical, the diameter of the handle being

much smaller than the length of the handle, said handle being capable of being held in between the thumb and first and second fingers of a dental examiner's hand. Figure 8 also shows a head (HE), which is generally flat and thin. This also reads on Claim 16. As to Claim 4, the data input device 110 comprises a multiplicity of push buttons 128,132,134. Regarding Claims 6-8, the data input device 110 comprises a touch sensitive display 110 (see column 4, lines 43-47); the screen 110 acts as a mirror; and the multiplicity of push buttons 128,132,134 are located peripherally about said mirror. With respect to Claim 10, the screen 110 is also considered a display. As to Claim 14, the tool 100 further comprises an electrical connector 210 (as shown in Figure 2) attached to a second end of said handle 114, and an electrical cable 212 connecting said electrical connector 210 to said data input device 110. Regarding Claims 15 and 17, the stylus 122 is capable of functioning as a dental probe. As to Claim 18, the system 100 further comprises a controller 214 with an operating program, said controller 214 being linked to said intraoral data input tool 110 by a communication means. Regarding Claim 19, the communication means comprises an electrical cable as shown in Figure 2 hanging from the bottom of the device 100. Barnes et al also disclose a dental data input system 100 wherein said communication means is a wireless communication means 123. To Claims 23 and 25, the dental input system 100 comprises a display 110 electrically connected to the controller 214; and a keyboard or auxiliary input device 128,132,134 electrically connected to the controller 214. Obviously there is some sort of operating program within this device. To claim 48, push buttons (128,132,134) display (110) is touch sensitive (see column 4, lines 43-47). Barnes et al does not teach the largest dimension of the head being 2.5 centimeters in claim 1 or as to claim 44, the length of the handle being approximately 13 centimeters. It would have been obvious to one

having ordinary skill in the art at the time the invention was made to incorporate the dimension and length as claimed, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955). Regarding the amended version of claim 1, the head (HE) has first and second parallel flat surfaces (1,2) as illustrated in the Figure below. Further, the term "circumference" as defined by The American Heritage Dictionary of the English Language is "the boundary line of a figure, area, or object". Accordingly, it is obvious that the head (HE) has a circumferential surface. Also, Figure 8 shows that the handle (H) is attached to the circumferential surface. This also reads on the amended version of claim 16.



Further to claims 1,5,9,13, and 48 Barnes et al disclose the claimed invention except for the discoid head. It would have been an obvious matter of design choice to manufacture the head of the device having a discoid shape, since such a modification would have involved a mere change in the shape of a component. A change in shape is generally recognized as being within the level of ordinary skill in the art. Further to claim 9, head (118) obviously has a first and second parallel flat surfaces, otherwise display (110) would be held in a slanted orientation.

To claim 3, Barnes et al teach an extrusion (128) rigidly attached to the head. The language “configured to allow the dental examiner to place one or more fingers of the stylus being hand against said extrusion to provide extra stability when inputting data with the stylus” is a recitation of intended use. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

As to Claim 5, Barnes et al disclose the claimed invention except for the buttons being sized in the range of 1 to 2 square millimeters. It would have been an obvious matter of design choice to manufacture the head of the device having a size within this range, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

Further regarding Claim 13, Barnes et al disclose the claimed invention except for the wireless communication device being within the handle. It would have been obvious to one having ordinary skill in the art at the time the invention was made to enclose the wireless

communication device within the handle, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japiske*, 86 USPQ 70.

2) Claims 11-12 and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barnes et al in view of Jung et al (US 2003/0156283). Barnes et al disclose the claimed invention except for the translucent disposable cover and dental operating programs. Jung et al disclose the use of a translucent cover 50 to protect the device. Further Jung et al teach a dental operating program as shown in Figures 9A and 9B. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the disposable cover and dental operating program as taught by Jung et al into the device of Barnes et al in order to protect the device from dust or other foreign particles when not in use and the dental program or any program could be adapted into any device that holds or reads data.

Regarding Claim 12, Barnes et al discloses a clamp 116 which could be used to hold a cover onto the device to prevent it from easily slipping off.

3) Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Barnes et al in view of Mattson et al (USPN 5,303,148). Barnes et al disclose the claimed invention except for the voice synthesizer. Mattson et al teach a voice synthesizer which “audibilizes text or word information, as well as word information components to machine signals, in language designated by the language code” (column 5, lines 17-22). It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the voice synthesizer as taught by Mattson et al into the device disclosed by Barnes et al in order to provide an additional

auxiliary feature that allows the operator to input information without the use of the buttons or stylus.

Allowable Subject Matter

Claims 53-56 are allowed.

Claims 42-43,46-47,49-52 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1 and 16 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Candice C. Stokes whose telephone number is (571) 272-4714. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached on (571) 272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3732

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Candice C. Stokes